

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method of operating a counter-rotation or butterfly wiper system, in ~~particular a counter-rotation or butterfly wiper system~~, comprising:
driving at least two motor units ~~which can be driven~~ independently of one another,
wherein the at least two motor units ~~[[and]]~~ are coupled to wiper arms for holding wiper blades;[[,]]
~~a controller for controlling the at least two motor units using a controller;[[,]] and~~
~~sensor units for determining the angular position of the wiper blades using sensor units,~~
wherein said sensor units being are connected to the controller, ~~characterized in~~
that
wherein ~~[[the]]~~ wiping angles of the wiper blades lie within various are divided into a
plurality of angle zones, wherein ~~on the one hand the one of the plurality of angle~~
zones within which ~~[[the]]~~ a respective wiper blade is located is determined by
~~means of using an absolute sensor, and on the other hand the an angle within the~~
one of the plurality of angle zones of the respective wiper blade within the
respective angle zone is determined by ~~means of using~~ a relative sensor.
2. (Currently Amended) The method as claimed in claim 1, ~~characterized in that, wherein~~
when the wiper blades cross from one a first angle zone of the plurality of angle zones to a
~~neighboring second angle zone of the plurality of angle zones~~, ~~[[the]]~~ a measuring angle
within the second angle zone is reset to zero.
3. (Currently Amended) The method as claimed in claim 1, ~~characterized in that, wherein~~
when the wiper system ~~and/or the vehicle~~ is started, ~~[[it is]]~~ an angle zone location of the
respective wiper blade is determined, ~~and wherein in which angle zone the respective wiper~~
~~blade is located, and in that~~, starting from the respective angle zone location, control
sequences are stored in the controller which control the motor units ~~in such a way that to~~
move the wiper blades ~~are moved~~ into a respective neighboring angle zone of the plurality of
angles zones without any collision between the wiper blades[[them]].

4. (Currently Amended) ~~The method as claimed in claim 3, characterized in that~~ wherein the control sequences move the wiper blades in such a way that they are guided into a parked position.
5. (Currently Amended) A counter-rotation or butterfly wiper system, in particular a ~~counter-rotation or butterfly wiper system~~, comprising:
at least two motor units ~~which can~~ configured to be driven independently of one another and are coupled to wiper arms for holding wiper blades;[[,]]
a controller for controlling the at least two motor units;[[,]] and
sensor units for determining the angular position of the wiper blades, wherein said sensor units being are operatively connected to the controller, ~~characterized in that~~ wherein the wiper system is configured to: suitable for carrying out the method as claimed in claim 1
determine the angular position of the wiper blades using the sensor units by dividing wiping angles of the wiper blades into a plurality of angle zones, wherein one of the plurality of angle zones within which a respective wiper blade is located is determined using an absolute sensor, and an angle within the one of the plurality of angle zones of the respective wiper blade is determined using a relative sensor.
6. (Currently Amended) ~~The wiper system as claimed in claim 5, characterized in that each wiper arm is provided with a sensor unit which has an absolute sensor for determining the respective angle zone and a relative sensor for determining the angle within an angle zone, wherein [[the]] boundaries between in each case two a first and a second neighboring angle zone[[s]] form reference points for the relative sensor by resetting a measuring angle within the second neighboring angle zone to zero when the respective wiper blade crosses the boundary from the first neighboring angle zone into the second neighboring angle zone.~~
7. (Currently Amended) ~~The wiper system as claimed in claim 5, characterized in that~~ wherein the absolute sensors detect the angle zones at the pivot axes of the respective wiper arms.
8. (Currently Amended) ~~The wiper system as claimed in claim [[5]] 7, characterized in that~~ wherein the absolute sensor is a digital magnetic field sensor which comprises

comprising a magnet wheel arranged on the pivot axle of each wiper arm, which wherein the magnet wheel is scanned by at least two sensor elements arranged offset with respect to one another.

9. (Currently Amended) The wiper system as claimed in claim ~~[[5]]~~ 8, ~~characterized in that~~wherein ~~[[the]]~~ an arrangement, a number, and a size of ~~[[the]]~~ angle sections of ~~[[the]]~~ polarities of the magnet wheel, and ~~[[the]]~~ a number and an angular spacing of the ~~digital~~ magnetic field sensors is adapted to the wiping angle of the respective wiper blade.
10. (Currently Amended) The wiper system as claimed in claim 5, ~~characterized in that~~wherein the relative sensor detects ~~[[the]]~~ a rotational speed of ~~[[the]]~~ a motor shaft upstream of a gear transmission.
11. (Currently Amended) The wiper system as claimed in claim 5, ~~characterized in that~~wherein the relative sensor is an incremental, digital magnetic field sensor.
12. (Currently Amended) The wiper system as claimed in claim 5, ~~characterized in that~~wherein the wiping angles of the wiper blades lie ~~in each case in at least three and preferably four angle zones.~~
13. (Currently Amended) The wiper system as claimed in claim 5, ~~characterized in that~~wherein ~~the respective~~ a collision angle range that defines angles at which the wiper blades collide in which a collision is possible is divided into preferably three angle zones.
14. (Currently Amended) The wiper system as claimed in any of claims 5, ~~characterized in that~~wherein, in the controller, the angle zones of the various wiper blades are depicted in a matrix comprising a plurality of fields, wherein each of the plurality of fields corresponds to an angular position of the wiper blades, wherein ~~in each case one angle zone of one a first angle zone associated with a first wiper blade and one angle zone of another a first angle zone associated with a second wiper blade form one field (x,y, with x=1..4 and y=1..4) of the matrix.~~
15. (Currently Amended) The wiper system as claimed in claim 14, ~~characterized in that~~wherein the angles forming a collision area ~~[[(46)]]~~ of the wiper blades is superposed on the matrix.

16. (Currently Amended) The wiper system as claimed in claim ~~[[14]]~~ 15, ~~characterized in that wherein~~ the plurality of fields of the matrix which are passed through by that overlap with boundary lines of the collision area are passed through by a boundary line only once.
17. (Currently Amended) The wiper system as claimed in claim ~~[[14]]~~ 15, ~~characterized in that wherein~~ the collision area is covered by a total of nine matrix fields with $x=1, 2, 3$ and $y=1, 2, 3$.
18. (Currently Amended) The wiper system as claimed in claim ~~[[14]]~~ 15, ~~characterized in that wherein~~ control sequences are stored which, starting from any point within one of the plurality of ~~[[a]]~~ fields, move the wiper blades into a neighboring one of the plurality of fields without passing through the collision area.
19. (Currently Amended) The method as claimed in claim 2, ~~characterized in that, wherein~~ when the wiper system and/or the vehicle is started, ~~[[it is]]~~ an angle zone location of the respective wiper blade is determined, and wherein in which angle zone the respective wiper blade is located, and in that, starting from the respective angle zone location, control sequences are stored in the controller which control the motor units in such a way that to move the wiper blades ~~are moved~~ into a respective neighboring angle zone of the plurality of angles zones without any collision between the wiper blades~~[[them]]~~.
20. (Currently Amended) The method as claimed in claim 19, ~~characterized in that wherein~~ the control sequences move the wiper blades ~~in such a way that they are guided~~ into a parked position.
21. (Currently Amended) The wiper system as claimed in claim ~~[[6]]~~ 1, ~~characterized in that wherein~~ the absolute sensor~~[[s]]~~ detects the plurality of angle zones at the pivot axles of the respective wiper arms.